

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
11 August 2005 (11.08.2005)

PCT

(10) International Publication Number  
**WO 2005/073305 A1**

(51) International Patent Classification<sup>7</sup>: C08K 3/04,  
C08L 53/00, C01B 31/02

(21) International Application Number:  
PCT/IL2004/001124

(22) International Filing Date:  
13 December 2004 (13.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
160145 29 January 2004 (29.01.2004) IL

(71) Applicant (for all designated States except US): BEN-GU-  
RION UNIVERSITY OF THE NEGEV RESEARCH  
AND DEVELOPMENT AUTHORITY [IL/IL]; P.O. Box  
653, 84105 Beer-Sheva (IL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): YERUSHALMI-  
ROZEN, Rachel [IL/IL]; Kfar Varburg, 70998 (IL).

(74) Agents: LUZZATTO, Kfir et al.; LUZZATTO & LUZ-  
ZATTO, Box 5352, 84152 Beersheva (IL).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR THE PREPARATION OF DISPERSIONS OF CARBON NANOTUBES

(57) Abstract: The invention provides a method for the preparation of a suspension of de-agglomerated carbon nanotubes, comprising mixing agglomerated carbon nanotubes with a block copolymer. Further, a powder of de-agglomerated carbon nanotubes is provided, that can be easily redispersed to obtain a suspension of untangled carbon nanotubes. The invention also relates to the use of the provided materials in the preparation of composites, and in electronics.



WO 2005/073305 A1